	Central Intelligence Agency	
	Washington, D. C. 20505	
•	20 September 1985	
	France Tries to Close the Technology Gap II	
	Summary	
	This summer, France has continued to move forward on several technology fronts. French officials have campaigned long and hard for President Mitterrand's pet project, EUREKA, and on 17 July ten EC countries along with Spain, Portugal, Austria, Norway, Sweden, Finland, and Switzerland formally pledged to join EUREKA. Although they were unable to agree on the program's funding or structure, they did set up a series of experts meetings for this fall, which will cluminate with a ministerial-level meeting on 5 and 6 November in Hanover, West Germany. The program has been generally well received in Western Europe, although West Germany and the UK remain deeply suspicious about France's obvious attempts to dominate it. In our judgment, the future of EUREKA still depends very much on the ability of governments to move quickly to generate successful collaborative projects soon.	
Presi	research at the national level, but Mitterrand and others have made it clear that French firms can go In response to a request from Dr. George A. Keyworth, Science Adviser to the	
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ahead with company-to-company deals under certain conditions. At least two state-owned French electronics firms are aggressively pursuing contracts to join in SDI-related pages.	25 X 1
to join in SDI-related research with US companies.	25X1
In space research, France was hit hard by the recent failure of an Ariane rocket. The Arianespace company has built a reputation for dependability that has garnered it nearly half of the world market for launching commerical satellites. This failure is likely to undermine some of that confidence.	25X1
Research is one of the few superations	20/(1
scheduled to grow in real terms (3-3.5 percent) in the 1986 budget adopted on 11 September.	25X1
France continues to work hard at preventing technology leaks to the Soviet Union.	25X1

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EUREKA

Western Europe, led by France, has moved ahead in the planning stages of EUREKA, but thus far there is nothing concrete to show for the effort. On 17 July the foreign and research ministers from the ten EC countries along with Spain, Portugal, Austria, Norway, Sweden, Finland, Switzerland, and representatives from the EC Commission formally pledged to join in EUREKA. During the meeting, President Mitterrand pledged just over \$110 million to EUREKA, but so far France is the only country to have made a financial commitment. The ministers, unable to agree on the program's funding or structure, promised to meet again by mid-November to iron out the details and appointed a group of experts to prepare background studies in the interim.

--The experts met on 18 and 19 September and will reconvene on 16 and 17 October to discuss possible areas of research and specific projects.

 $\mbox{--}\mbox{Financial experts}$ will meet separately in mid-October to discuss funding.

--The ministerial-level meeting is set for 5 and 6 November in Hanover, West Germany.

The French government has devoted considerable time, talent, and effort to developing EUREKA. Hubert Curien, the Science and Research Minister, oversees EUREKA policy, although Edith Cresson, the Trade Minister, is also heavily involved in EUREKA planning, as are top officials in the Foreign Ministry. Paris has also named Yves Sillard, a highly respected aeronautical engineer who has been closely involved in the French space program, to coordinate French government and industry participation in EUREKA.

France has lobbied heavily in favor of EUREKA, both in Europe and elsewhere. While in China this month, Foreign Minister Dumas received Beijing's glowing endorsement of the program.

The program has generally been well-received in Western Europe, although most countries still approach it cautiously since it is clearly in its formative stages. France has concentrated most of its lobbying attention on West Germany and the UK, and EUREKA was one of the primary topics at a summit meeting in August between President Mitterrand and Chancellor Kohl.

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of govern The Novem nomentum orojects, oarticipa on the ot	ir judgment, the future of EUREKA still depends on the ability ments to generate successful collaborative projects soon. He will be meeting may make or break the program. EUREKA may gain and prove viable if the ministers can agree on several pilot a level of funding adequate to attract industrial ation, and effective administration. If European governments, ther hand, continue to quibble and delay, the program probably	
vill lose	e its attraction for industry and quietly disappear.	25
French Pa	rticipation in SDI	
Altho	ough France has officially rejected SDI at the national level, rms are moving aggressively to participate in SDI research.	
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Appendix

EUREKA Areas of Research

EUREKA's areas of possible research have kept shifting as France has modified its original proposal to suit prospective West European partners. All the following 11 research areas have been mentioned in talks among the French and other West European governments:

	Artificial	intelligence.*
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- -- High-powered lasers.*
- -- Large computers.*
- -- Microelectronics.*
- -- New materials. *
- -- Optoelectronics.*
- -- Space research.*
- -- Biotechnology.
- -- Engineering in extreme environments.
- -- Flexible and highly integrated systems.

 Robotics.	

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Talks among West European government and industry representatives, particularly between the French and West Germans, have focused on five areas:

- -- Supercomputers--France already is working on supercomputers in its Marisis project but probably would be eager to get more funding and West German expertise through EUREKA.
- -- Integrated circuits--some work in this area already is being done in the EC ESPRIT program, but there is widespread West European interest in expanding research in both gallium arsenide and silicon integrated circuits.

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* Seven original areas of EUREKA research proposed by France.
The four others were added as France modified its proposal.

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- Artificial intelligence software--West Europeans are interested in developing expert systems for the diagnosis of large systems, improving software productivity, and providing multi-lingual access to databases.
- Robotics and computer-aided manufacturing systems-fundamental research under ESPRIT is being conducted in this area, but West Europeans wish to enhance the application of computers to production and quality control systems.
- Industrial uses of high-powered lasers--the West Europeans, not wanting to fall behind the United States in this key area of SDI-related research, are discussing research in ultraviolet and infrared lasers.

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- Home electronics--including domestic appliances, tertainment devices, and information processing equipment.
- Transportation--including high-speed trains, air traffic control equipment, mobile digital radios, and post office automation.
- Factory automation--taking a systemwide approach to the "factory of the future" embracing such elements as lasers, robotics, and microelectronics.
- European standards--creating common standards for hightech equipment throughout Western Europe, tax incentives for firms operating at the Europeanwide level, and open government procurement policies.

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FRENCH COMPANIES INTERESTED IN EUREKA

<u>Companies</u>		Employees	1983 Sales
Aerospatiale	.	40,000	\$2.6

Comment: Leading French aerospace company and producer of military and civilian aircraft...also manufactures missiles, helicopters, and space systems...working with MBB on a communications satellite, several missile systems, and an anti-tank helicopter.

Bull 25,000 \$1.2 billion

Comment: State-owned manufacturer of mid-size and large computers...more recently involved in office automation and micro-computers...heavily patronized by French government... main contractor on French Isis and Marisis supercomputer projects.

Compagnie Generale 150,000 \$ 7.5 d'Electricite (CGE) billion

Comment: Diversified state-owned electronics firm with interests in electro-mechanical engineering and electrical construction...recently expanding interest in telecommunications and data processing.

Matra 30,000 \$1.2 billion

Comment: Manufacturer of arms systems, missiles, space launchers, satellites, and optical equipment...state-controlled...prime contractor for development and production of Ariane launcher...contractor on Spacelab project... predominantly military work but trying to expand civilian sector.

Thomson 130,000 \$6.7 billion

Comment: Manufacturer of a wide range of electronics products including consumer electronics goods, medical equipment, and electronic components...60 percent of sales from Thompson CSF subsidiary which produces avionics equipment, radar, radio and television equipment, and data processing equipment.

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